

### ABSTRACT OF THE INVENTION

The invention concerns a novel neuregulin related ligand (NRG3) including fragments and variants thereof, as new members of the neuregulin family of compounds. The invention also concerns methods and means for producing NRG3. The native polypeptides of the invention are characterized by containing an extracellular domain including an EGF-like domain, a transmembrane domain and a cytoplasmic domain. Isolated nucleotide sequences encoding such polypeptides, expression vectors containing the nucleotide sequences, recombinant host cells transformed with the vectors, and methods for the recombinant production for the novel NRG3s are also within the scope of the invention.